LINK ELECTRONICS, INC.

16x 16 Multi Layer Router with Audio Follow
Model 860-XL165AV

MADE IN THE USA

FEATURES

- **16 X 16 Video**
- **With Audio Follow**
- **RS-232 Control**
- **VGA to QXGA Performance**
- **300 MHz Bandwidth**
- **Control Panel Included**

Rear view of 2RU 16x16 multimedia frame

Link Electronics brings a breath of fresh air to the router industry! Our combined history of many years of broadcast Industry experience and impeccable integrity has been applied to this family of high performance component switchers. These component switchers are not repackaged single channel switchers. They are specifically designed from ground-up, to handle the demands of component high-resolution signals.

The 2RU 860-XL165AV video with stereo audio follow is presently a 'mid size' member of this family of products from Link Electronics.

Compact design. Just 2RU (3 "). Competing 16x16 multimedia switchers are typically 5RU (8 3/4").

Modular design. All the electronics are on front removable 'hot swapable' plug-in modules.

The H and V sync channels are based on the same 300MHz analog switching crosspoint used for the Red, Green, and Blue channels. This allows the 860-XL165AV to handle ANY computer sync rate, polarity or amplitude without risk of introducing distortions or jitter to these signals.

Inputs and outputs are via HD-15 computer multimedia standard connectors. By eliminating the BNC connectors LINK has eliminated one of the primary causes of signal degradation: the signal discontinuities caused by 'break-out' cables, BNC type connectors and path length variations.

Plug-in power-supply modules. Each frame has two front load slots for power supplies. One PS is standard. The second supply is the redundant power supply option. True load power monitoring is included with remote indicators for both power supplies. The video and audio power supplies are identical in all MAJESTIC series switchers.

16x16 stereo analog audio is included with this video five layer video router, with control panel.

LINK ELECTRONICS, INC. 2137 Rust Avenue Cape Girardeau, MO 63703-7668
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SPECIFICATION
860-XL165AV

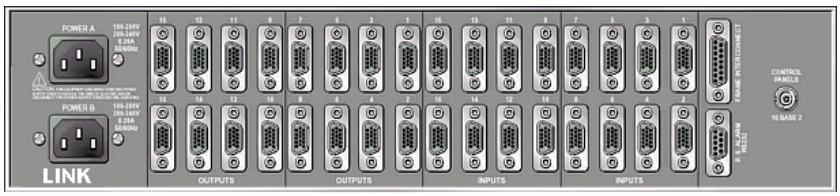
VIDEO INPUTS
Signal Inputs: 16
Impedance: . . . . . 75 Ohms, 0.1% termating
Coupling: . . . . . DC
Connector Type: HD-15
RGB Levels: . . . . . 0.5vp-p to 2Vp-p Maximum
H & V Level: . . . . . 0.5Vp-p to 3Vp-p Maximum

AUDIO INPUT:
Number Inputs: 16
Connector Type: . . . . . Weco, 3-Pin Disconnect
Impedance: 20K**S**
Level: . . . . . +26dBu, maximum
CMRR: . . . . . 60dB @ 1 KHz

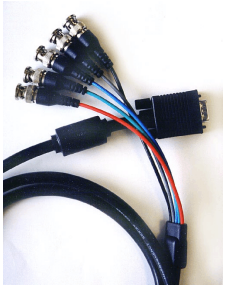
VIDEO OUTPUTS
Number Outputs: 16
Connector Type: HD-15
Impedance: . . . . . 75 Ohms, 0.1% Source termating
RGB Level: . . . . . 0.5Vp-p to 2Vp-p Maximum
H&V Level: . . . . . 0.5Vp-p to 3Vp-p Maximum

AUDIO OUTPUTS:
Signal Type: . . . . . Balanced
Connector Type: . . . . . Weco, 3-Pin Disconnect
Impedance: . . . . . >30**S**
Level: . . . . . 26dBu, maximum
Frequence Response:: . . . . . ±0.1dB to 20kHz, ref 1kHz
Crosstalk: . . . . . 90dB @ 10 KHz
DC Offset: . . . . . <50mV
SNR: . . . . . <100dB, 20Hz to 20KHz
IM/THD: . . . . . <0.02%

SIGNAL INTEGRITY
Gain . . . . . :Unity ±0.1 dB.
Freq response: . . . . . ±0.1dB to 5mHz, -3dB bandwidth to 250mHz
Resolutions: . . . . . Supports all graphics standards: from VGA to QXGA
Slew rate: . . . . . 500V/usec.
Ringing amplitude: . . . . . 1% overshoot maximum.
Ringing duration: . . . . . <2ns
Horizontal tilt: . . . . . <0.25%.
Vertical tilt: . . . . . <0.25%.
Crosstalk isolation: . . . . . 60dB to 10mHz.
Propagation delay: . . . . . <5ns typical.
In/In delay scatter: . . . . . ±0.5ns.
In/In gain scatter: . . . . . ±0.05% ref unity
DC offset: . . . . . <25mV
SNR: . . . . . -70dB, 5mHz bandwidth, 1.0Vp-p video to RMS noise.



Rear Panel



HD-15 Cable (Not Supplied)

Rear Panel for Audio Follow

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